Fig. 1A


```
            -12                                                          39
  GG GCG GAC TCT AAA ATG AAT CCC GAT CTG GAC ACC GGC CAC AAC ACA TCA GCA
                     M   N   P   D   L   D   T   G   H   N   T   S   A
                                                         ▲
                                                                        93
  CCT GCC CAA TGG GGA GAG TTG AAA GAT GCC AAC TTC ACT GGC CCC AAC CAG ACC
   P   A   Q   W   G   E   L   K   D   A   N   F   T   G   P   N   Q   T
                                                ▲                   ▲
                                                                       147
  TCG AGC AAC TCC ACA CTG CCC CAG CTG GAC GTT ACC AGG GCC ATC TCT GTG GGC
   S   S   N   S   T   L   P   Q   L   D   V   T   R   A   I   S   V   G
           ▲
                                                                       201
  CTG GTG CTG GGC GCC TTC ATC CTC TTT GCC ATT GTG GGC AAC ATC CTG GTC ATC
   L   V   L   G   A   F   I   L   F   A   I   V   G   N   I   L   V   I
                                                                       255
  CTG TCA GTG GCC TGC AAT CGG CAC CTG CGG ACG CCC ACC AAC TAC TTC ATT GTC
   L   S   V   A   C   N   R   H   L   R   T   P   T   N   Y   F   I   V
                                                                       309
  AAC CTG GCC ATT GCT GAC CTG CTG TTG AGT TTC ACA GTC CTG CCC TTC TCC GCT
   N   L   A   I   A   D   L   L   L   S   F   T   V   L   P   F   S   A
                                                                       363
  ACC CTA GAA GTG CTT GGC TAC TGG GTT CTG GGG CGC ATC TTC TGT GAC ATC TGG
   T   L   E   V   L   G   Y   W   V   L   G   R   I   F   C   D   I   W
                                                                       417
  GCA GCG GTG GAC GTC CTG TGC TGT ACG GCC TCC ATC CTG AGC CTA TGT GCC ATC
   A   A   V   D   V   L   C   C   T   A   S   I   L   S   L   C   A   I
                                                                       471
  TCC ATT GAT CGC TAC ATT GGG GTG CGC TAC TCT CTG CAG TAC CCC ACT CTG GTC
   S   I   D   R   Y   I   G   V   R   Y   S   L   Q   Y   P   T   L   V
                                                                       525
  ACC CGC AGG AAG GCC ATC TTG GCA CTC CTC AGT GTG TGG GTT TTG TCC ACG GTC
   T   R   R   K   A   I   L   A   L   L   S   V   W   V   L   S   T   V
                                                                       579
  ATC TCC ATC GGG CCT CTC CTT GGA TGG AAA GAA CCA GCG CCC AAC GAC GAC AAG
   I   S   I   G   P   L   L   G   W   K   E   P   A   P   N   D   D   K
                                                                       633
  GAA TGC GGA GTC ACC GAA GAA CCC TTC TAT GCC CTC TTT TCC TCC CTG GGC TCC
   E   C   G   V   T   E   E   P   F   Y   A   L   F   S   S   L   G   S
                                                                       687
  TTC TAC ATC CCA CTC GCG GTC ATT CTG GTC ATG TAC TGC CGG GTC TAC ATC GTG
   F   Y   I   P   L   A   V   I   L   V   M   Y   C   R   V   Y   I   V
                                                                       741
  GCC AAG AGG ACC ACC AAG AAC CTG GAG GCT GGA GTC ATG AAG GAG ATG TCC AAC
   A   K   R   T   T   K   N   L   E   A   G   V   M   K   E   M   S   N
                                                                                 ‾   ‾
                                                                       795
```
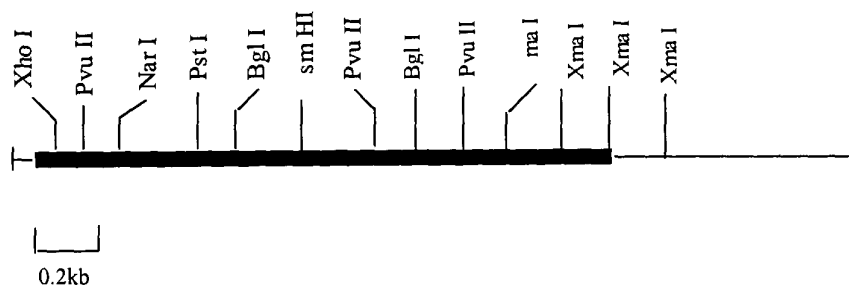
Fig. 1B

```
TCC AAG GAG CTG ACC CTG AGG ATC CAC TCC AAG AAC TTT CAT GAG GAC ACC CTC
 S   K   E   L   T   L   R   I   H   S   K   N   F   H   E   D   T   L
                              peptide 1                                      849
AGC AGT ACC AAG GCC AAG GGC CAC AAC CCC AGG AGT TCC ATA GCT GTC AAA CTT
 S   S   T   K   A   K   G   H   N   P   R   S   S   I   A   V   K   L
                                                                            903
TTT AAG TTC TCC AGG GAA AAG AAA GCA GCC AAA ACC TTG GGC ATT GTG GTC GGA
 F   K   F   S   R   E   K   K   A   A   K   T   L   G   I   V   V   G
                                                                            957
ATG TTC ATC TTG TGT TGG CTC CCC TTC TTC ATC GCT CTC CCA CTT GGG TCC CTG
 M   F   I   L   C   W   L   P   F   F   I   A   L   P   L   G   S   L
                              peptide 2                                      1011
TTC TCC ACT CTC AAG CCC CCG GAC GCC GTG TTC AAG GTG GTA TTC TGG CTG GGC
 F   S   T   L   K   P   P   D   A   V   F   K   V   V   F   W   L   G
                                                                            1065
TAC TTC AAC AGC TGC CTG AAC CCC ATC ATC TAC CCG TGC TCC AGC AAG GAG TTC
 Y   F   N   S   C   L   N   P   I   I   Y   P   C   S   S   K   E   F
                                                                            1119
AAG CGC GCC TTC ATG CGT ATC CTT GGG TGC CAG TGC CGT AGT GGC CGT CGC CGC
 K   R   A   F   M   R   I   L   G   C   Q   C   R   S   G   R   R   R
                                                                            1173
GCG CGC CGC CGT CGT CTG GGC GCG TGC GCT TAC ACC TAT CGG CCG TGG ACG CGC
 R   R   R   R   R   L   G   A   C   A   Y   T   Y   R   P   W   T   R
                                                                            1227
GGC GGC TCG CTG GAG CGA TCG CAG TCG GGG AAG GAC TCC CTG GAC GAC AGC GGC
 G   G   S   L   E   R   S   Q   S   R   K   D   S   L   D   D   S   G
                                                                            1281
AGC TGC ATG AGT GGC AGC CAG AGG ACC CTG CCC TCG GCG TCG CCC AGC CCG GGC
 S   C   M   S   G   S   Q   R   T   L   P   S   A   S   P   S   P   G
                                                                            1335
TAC CTG GGT CGC GGA GCG CAG CCA CCA CTG GAG CTG TGC GCC TAC CCC GAA TGG
 Y   L   G   R   G   A   Q   P   P   L   E   L   C   A   Y   P   E   W
                                                                            1389
AAA TCC GGG GCT CTG CTC AGT CTG CCA GAG CCT CCG GGT CGC CGC GGT CGC CTC
 K   S   G   A   L   L   S   L   P   E   P   P   S   R   R   G   R   L
                                                                            1443
GAC TCT GGG CCC CTC TTC ACT TTC AAG CTC TTG GGA GAG CCG GAG AGC CCG GGC
 D   S   G   P   L   F   T   F   K   L   L   G   E   P   E   S   P   G
                                                                            1551
GGG CAG CCC GGT TTC AAG AGC AAC ATG CCT CTG GCA CCC GGG CAC TTT TAG GGT
 G   Q   P   G   F   K   S   N   M   P   L   A   P   G   H   F
                                             peptide 3                       1605
CCC TTT TCT TTC CCC CAC ACA CAC CCC AGG GGG GAG GAC ACC ATT GTG GGG GGC
                                                                            1659
GGG GGC ATG GGG GGG AGT GTC AGC CCC GGG TAG ACA CAG GGT CGC AAG GGT ACA
                                                                            1713
AGG GGG GAG GGG GGC GGG GAG AGG GGC AGC TGC TTT TCT GGC AGG GGC ATG GCT
                                                                            1767
GCC AGG TAC AGC GGA GAG CTG GCT GCG CAT GCT GAG AGC CTG GGG ACC CAC CCC
                                                                            1821
CAA CGC TGG CCG GGA CTT AAG TCT CTC TCT TCT CTC TCT CTG TAT ATA TAT AAA
                                                                            1875
GAG TCC CTC TAT ACG TAT TTA TCT GTG GGT ACA CGT GCG TGT GTC TGT GCG GTC
                                                                            1929
AAC GTG TGG GCT GCA TGG ATG TGT GTT GGG GGC CTG CCC ACT TGC GCG TGC TGG
                                                                            1983
GGC AGA GCG AGT GTG TGC CCT GGC AAT GTC AGG TTT GTT GTT TGT CTC TTG ACT
```

Fig. 1C

```
                                                                    2037
TGT ACC TCT CAA GCC CCT CCT TGT TCT CTG GTC AAT GCT GGC ATT TTG ATG GGG
                                                                    2091
TTG GAA ACC AAG TCA GAT ATT AAA AAT CAT TTC TCG TGA AAA AAA AAA AAA
```